

Amherst Recreation Presents...

Hartshorn Summer Program 2010

Peabody Mill Environmental Center

The mission of Peabody Mill Environmental Center (PMEC) is to foster an awareness, understanding, and appreciation of the natural world, by offering environmental, conservation, and science programs to all ages. PMEC strives to foster diligent stewardship of our environment so that future generations may inherit and continue to be inspired by the wonders of a protected and natural world.

With that in mind we are offering our 21st season of environmentally based programs in the Hartshorn Summer Program. Programs will be held at the PMEC located at the end of Brook Road in Amherst. Programs are offered by grade and the grade is what the child will be entering in the Fall of 2010. The week long classes are offered 9am-12pm daily with extended day options available. Be sure to register early as classes fill quickly. Classes will begin Tuesday 6/22/10 and continue for 10 weeks of summer! Extended day programs are not offered for children younger than those entering 1st grade.

Week 1 June 22-25~Week 2 June 28-July 2~Week 3 July 6-9~Week 4 July 12-16~Week 5 July 19-23~Week 6 July 26-30~Week 7 August 2-6 Week 8 August 9-13~Week 9 August 16-20~Week 10 August 23-27
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Pre-Schoolers (3 & 4 year olds)

Toddler Trails, Tales & More.... Explore the woods, ponds and brooks around PMEC. Enjoy games, easy hikes, stories, and nature crafts. Each toddler must be accompanied by an adult. Offered weekly beginning 6/23 on Wednesdays (10 weeks) 9:30 -10:45am

Kindergarteners* & 1st Graders

Forest & Pond Dwellers: Get excited about animals! Spend each day investigating a different type of animal through observation, touching, and creative activities. Explore the world of insects, reptiles, amphibians, birds, and mammals. Enjoy activities and games about animals. 7/26-7/30, 8/16-8/20

Inspired By Nature Created By You: Come experience art from art’s original source “nature”. Let’s get creative outdoors! We will use natural items, found objects and artist materials to express our creative side. We will hike trails and wade in woodland streams drawing inspiration from nature. 6/28-7/2, 7/19-7/23, 8/2-8/6



Motion In Nature: Move to the sounds of nature enhanced by music. Become a dancing butterfly, tumbling turtle or twirling bird after creating your own costume for the day. All activities are geared toward enhancing coordination and balance. 7/6-7/9, 7/26-7/30

Natures Explorers Club: Explore the terrain around the center looking for creatures and their habitats. Senses will be heightened as we look and listen for signs of these creatures. Adventures will include bug catching, pond exploration, games, stories, crafts and more. 6/22-6/25, 6/28-7/2, 7/19-23, 8/2-8/6

Out Of This World: Discover what lies in space beyond the earth including the moon, planets and stars! The class will build and launch a rocket. Create constellation and solar system models as you explore the world beyond. Become a part of a human solar system. 7/12-7/16, 8/16-8/20

Trail Blazers: Join us as we travel our trails to forests and ponds discovering the fun that can be found in the woods. It will be a week of outdoor exploration, hiking, playing trail games, singing trail songs, telling stories, viewing the sights and sounds of the forest and completing arts and crafts projects. 7/12-7/16, 8/9-8/13



Up In The Air: Spend the week discovering what makes the air around us so amazing. Learn about air and wind using balloons, bubbles, paper airplanes, homemade miniature parachutes, and kites. 6/22-6/25, 7/6-7/9, 8/9-8/13

2nd & 3rd Graders

Butterflies Do Flutter By! Learn about the life cycle of one of natures most beautiful creatures. Build a butterfly cage, create a butterfly mosaic, learn what attracts butterflies to our own backyards, watch as a butterfly emerges from a chrysalis. 7/19-7/23, 8/16-8/20

Circle Of Life: Spend an enchanting week discovering the circle of life in our neighboring woods and water areas. Learn about mammals, birds, reptiles, amphibians, fish, insects and spiders, and discover how these creatures are interdependent. Explore PMEC habitats and learn what plants and animals need to survive. 7/6-7/9, 8/2-8/6

Eco-Adventures: Join in our eco-adventure games while gaining an appreciation of your natural surroundings. Learn to minimize your impact on the environment and the 3’s of green living, reduce, reuse & recycle. Activities, games and hikes will fill your days. 7/6-7/9, 8/16-8/20

Fly Me To The Moon: Have you ever wondered how those rocket scientist do what they do? How did we end up on the moon? Build a rocket, a Mars Rover, a Moon Lander, a Solar system model or perhaps a Star Chart. Build and launch a rocket. 6/22-6/25, 7/26-7/30

Inspired By Nature Created By You: Come experience art from art’s original source “nature”. Let’s get creative outdoors! We will use natural items, found objects and traditional artist materials to express our creative side. We will hike trails and wade in woodland streams drawing inspiration from nature. 6/22-6/25, 7/12-7/16, 7/26-7/30

Things With Wings: Use binoculars, nets and bug boxes to observe things with wings. Any creature that flies (from bats to birds to other flying animals) could be investigated. Games, stories, and crafts relating to our many winged friends will be a part of this fun week. 6/28-7/2, 8/9-8/13

Wet & Wild: Explore the different types of wetlands in the Joe English Conservation land and the wildlife that lives there. Make your own fishing poles and fish in our ponds. Crafts and water activities will give children who are magnetically attracted to wet and muddy places a week to remember. This program is not for children unwilling to get wet and muddy every day. 7/12-7/16, 8/9-8/13

Wise Kids Outdoors: Ever want to make a fort to hang out in? Want to plant something and watch it grow? Wonder what worms do for the dirt? Then “Wise Kids Outdoors” is for you. You’re guaranteed to get dirty, and have fun doing all these things and much more. You’ll go on scavenger hunts, make a critter keeper, look for bugs, and even learn about simple geocaching. 7/19-7/23

Woodland Indians: Immerse yourself in the world of the Woodland Indians of long ago. Explore their culture through storytelling, crafts, games and adventures. Make a pair of moccasins! 6/28-7/2



Woodland Fairy Adventures

 **MORNING SESSION** Miss Sierra & her Fairy Friends will be making magical **Fairy Gardens**. Children will take home their own miniature *Garden in a Box* -- each one unique & special. Along with the creation of their wee Fairy Gardens, we will also make Flower Petal Fairies and there will be Nature Walks, Storytelling, Music & Dance. Festive Fairy attire is welcome. On Friday, everyone will attend a *Graduation Celebration Fairy Tea*!

AFTERNOON SESSION Miss Sierra's August afternoon class works well as a complement to her morning class (Fairy Gardens) or all on it's own. Children will design & make wee **Fairy Garden Furniture** fashioned out of nature's gifts -- shells, acorns, milk weed pods, reflective mica, twigs, river rocks & more. To balance the creative handwork activities, there will be a Fairy Play, music, dance & storytelling. Festive Fairy attire is welcome. On Friday, a special *Graduation Celebration Fairy Tea* will be served!

Grades 2 & 3 August 2-6 Fairy Gardens 9am-12pm Fairy House Furniture 1-4pm
Grades 4 & 5 August 9-13 Fairy Houses 9am-12pm Fairy House Furniture 1-4pm

Vegetable Garden Club: 2nd, 3rd, & 4th Graders. Come learn about gardening by planting and tending a raised vegetable garden. Learn to care for plants through weeding, watering, how to plant what you will eat, tend a garden, harvest the garden bounty and enjoy fun games and crafts in the garden. Gain nurturing skills by having responsibility for other living things, and gain a sense of ownership and pride for foods you have grown. Wednesday afternoons 1-3pm. 6/23, 6/30, 7/7, 7/14, 7/21, 7/28, 8/4, 8/11



*Note: Kindergarteners must be 5 by October 1st, 2010.


4th& 5th Graders

All Charged Up!! Imagine spending a week taking part in safe, hands-on, battery-operated experiments in our science laboratory. Each day you will make a different battery-operated device and then take it home. You will discover how batteries and circuits work. You will build a burglar alarm, telegraph, quiz game, steady-hand game, and electromagnets. 6/28-7/2, 7/26-7/30

Become A Student Of Archeology: Do you like to dig for buried treasure in the dirt? Find lost items? Figure out what these clues to the past mean? Learn about the past? These are all things archeologists do, maybe you are one too? Let's see what stories from the past we can uncover in the grounds around PMEC using screens we build ourselves. 8/16-8/20

Cast Away - Fishing Fun! Spend the week exploring and fishing the streams and ponds in the area around PMEC. Learn the types of fish found in ponds and streams and how best to catch them. Our instructor will teach you the ins and outs of fishing using a variety of methods. Build a lure, fly and jig. 6/22-6/25, 7/26-7/30

Explore The World Of Very Tiny Things: For one week you will explore microscopy—using a microscope to view things. You will enter the world of the very small. You will prepare microscope slides and then view life found in a drop of pond water, water fleas, insect parts, plant cells, human cells, crystals, hair, thread, pepper, salt, sugar, yeast and many other tiny things. 7/6-7/9, 8/2-8/6

 **Going Buggy - A Study In Entomology:** Bugs, Bugs everywhere! Take a close look at the miniature marvels insect are and understand how these alien creatures impact our world. We'll study ants, bees, beetles, spiders even mosquito's paying close attention to their life cycle, habitat and the effect they have on the world around us. Create a bug chart, build a bug box and shadow box a bug. 7/12-7/16

Inspired By Nature Created By You: Come experience art from art's original source “nature”. Let's get creative outdoors! We'll use natural items, found objects and many artist materials to express our creative side. We will hike trails and wade in woodland streams drawing inspiration from nature. 6/28-7/2, 8/16-8/20

Nature In Film: Remember the wonderful wildlife show of years ago “Wild Kingdom”? This class will give our creative minded kids the opportunity to create a movie of nature at it's best. Perhaps document the home of Mr. & Mrs. Chipmunk in some of their daily activities or perhaps a cloud movie put to music. We'll film, edit, combine music and sub-titles to produce a short movie with each child. 8/2-8/6

Outdoor Awareness Skills: Learn and practice the fundamentals of camp craft and wilderness survival. This program includes instruction in safety, shelter construction, trail cuisine, fire building, orienteering skills, and animal tracking. 7/6-7/9



Pond Creatures And Plants: Leap into the wetlands! During this wetland ecology class we will explore ponds, swamps and marshes. Investigate wetland creatures, plants and their habitats. Evaluate ways to preserve wetlands. 7/19-7/23

Who Done It? Forensics: Immerse yourself in a hands-on series of imaginary crime scene investigations. Learn about scientific techniques used to gather evidence, such as fingerprinting, analyzing handwriting, collecting and observing hair and fibers under a microscope, use chemistry to compare unknown powders, and to separate colors. 6/22-6/25, 7/19-7/23

Young Chemists: Each day in our laboratory you will explore the world of chemistry with safe, hands-on activities. You will experiment with carbon dioxide, make slime, make ice cream, learn how to clean dirty pennies, write with invisible ink, learn about polymers by looking inside a diaper, make rock candy, grow a crystal garden, blow huge bubbles, make glue, and much more. 7/12-7/16, 8/9-8/13

6th, 7th & 8th Graders


Advanced Dissection: Future biologists will be fascinated by the more advanced anatomy of these dissection specimens. The dissection techniques used in this class will be more advanced and the anatomy of the specimens more complex. 7/12-7/16

Back Woods Adventures: Intensive hiking using compass and GPS unit to learn orienteering, questing and geocaching skills. Learn the technique of finding hidden treasures on scenic public land (all over the globe!). Be prepared to get dirty, hike 3 hours, get lost and found! 6/22-6/25, 7/6-7/9

Capture The Flag, With A Twist: Be one of three groups to build a shelter and a fort in a secret location. With other skills learned this week, hide a map with coordinates to your fort. Play Capture the Flag using a compass and camouflage. Plan rescue missions to save captured team mates! 8/9-13

Dissection: Budding biologists will love to spend the week learning about the anatomy of several different creatures. This program introduces beginners to basic dissection techniques and internal and external anatomy of 4 very different animals: earthworm, crayfish, grasshopper & frog. 6/28-7/2

Geology Rocks!! Current seismic activity in the world has heightened our curiosity of volcano's, earthquakes and other changes in the geological study of our world. We'll look at the world and study more closely the geological structures in our own area. Students will build a cut away model of the earth's core structure and as a group build a volcano to be activated on the last day of class. 7/19-7/23, 8/2-8/6

 **Get Your Head In The Clouds:** This environmental weather study will teach you the effect weather has on the world around us. Gain an understanding of the effects of temperature, moisture and air movement. Is it global warming or the natural cycle of climate change? Let's explore the possibilities. Each student will begin a weather journal and build their own weather station. 7/26-7/30, 8/16-8/20

Living In The Trees: Build a tree fort using ropes, downed wood and found objects. Could we really live in a tree? Challenge the limits of physics, engineering and creativity as we take to the trees. No trees will be injured in the building of this structure. 7/19-7/23

Nature Detective: Let's take a closer look at nature and see what will we find. Through scientific investigation, we'll examine water, soil, animals of all types to see what lies beyond the naked eye. Compile a journal recording the facts discovered. 7/26-7/30, 8/16-8/20

Nature's Colorful Bounty: Express your creative side with the use of many different mediums as well as items collected in nature. Activities to include, tie die with natural dyes, paper making, natures collage and many more. We'll create works of art that you'll treasure for years to come. 6/22-6/25, 7/6-7/9, 8/2-8/6


Water Works: Spend the week learning all about this amazing natural resource. Is water necessary for life? Why do some things float on water? What's in pond water? Learn what's behind water and its amazing power. Discover how water wheels and steam engines work. This week long program will include experiments, games, crafts, hikes and many other exciting activities. 7/12-7/16

Who's Got The Power? - Create Energy From Nature: Learn about solar, geothermal, water, friction, and electro magnetics. Build a hovercraft from CDs as well as other energy projects from every day materials. 6/28-7/2, 8/9-8/13

Last Hurrah! Outdoor Adventure Club - August 23-27 The final full week of summer will be spent learning about the environment around the PMEC through hikes, pond exploration and walks in the stream. Each days lesson will focus on a different part of our environment. We will go fishing, play games, sing songs, create works of art and most of all have fun. Students Grades K - 8 (kids will be grouped by age)	Families A Night With Nature: Nestled in a local secluded site join us for a family camping trip. A parent, guardian or adult chaperone must register and accompany children. A further description and a list of basic supplies needed for the overnight outing will be posted at our website. Date TBA
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Hartshorn In The Afternoon

Spend the afternoon exploring nature! Enjoy a relaxing lunch with friends before spending hours engaged in fun activities. This loosely structured afternoon will include science and nature experiments, exploring the land and trails around PMEC, wading through streams, nature crafts, stories, games and more. Children will spend time fishing, collecting frogs and bugs, and making new friends. Students Grades 1-6 noon-5:30PM

Hartshorn Program Registration Fee Schedule Weekly: Hartshorn 9:00am-noon \$95 Res, \$105 NonRes Morning Care 7:30-9:00am \$25 Res, \$30 NonRes Afternoon Care noon-5:30pm \$90 Res, \$100 NonRes Morning & Afternoon Care \$105 Res, \$115 Non Res Hartshorn Program Registration Fee Schedule Daily: Morning Care 7:30-9:00am \$6 Res, \$8 NonRes Daily Afternoon - noon-5:30pm \$22 Res, \$27 NonRes	Hartshorn Program Registration Fee Schedule Cont'd: Short (4 day) Week Fee 6/22-25, 7/6-9 \$75 Res, \$85 Non Res 3 & 4 year olds-Toddler Trails, Tales & More 10 Weeks \$60 Res, \$70 NonRes 1 week \$7 Res, \$8 NonRes Vegetable Garden Club (8 Weeks) \$80 Res, \$90 NonRes A Night with Nature - TBA	
Pre-registration is required for all programs, weekly or daily. Registration is complete only when payment has been received. Register at www.amherstrec.org . Registrations should be mailed to P.O. Box 960, Amherst, NH 03031 and they can also be accomplished in person at the recreation office or by phone at 673-6248.		